

Date: Sat, 4 Jun 94 04:30:20 PDT
From: Ham-Equip Mailing List and Newsgroup <ham-equip@ucsd.edu>
Errors-To: Ham-Equip-Errors@UCSD.Edu
Reply-To: Ham-Equip@UCSD.Edu
Precedence: Bulk
Subject: Ham-Equip Digest V94 #174
To: Ham-Equip

Ham-Equip Digest Sat, 4 Jun 94 Volume 94 : Issue 174

Today's Topics:

 Alinco DJ180T mods?
 AOR 2800 for sale
 ATARI MEGAFILE 44 (SyQuest) FOR SALE !
 getting on hf amtor/rtty: need suggestions!!
 Info needed
 Kenwood Computer Control
 Military Radios
 Old CRT Reference Data? (2 msgs)
 Quiet computers (2 msgs)
 SWR Analyzers (2 msgs)
 wanted 7mhz tcvr
 Yay-hoo FT-530 : Piece of junk

Send Replies or notes for publication to: <Ham-Equip@UCSD.Edu>
Send subscription requests to: <Ham-Equip-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Equip Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-equip".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 31 MAY 94 08:48:46 CST
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!wupost!kuhub.cc.ukans.edu!
news.umkc.edu!noc.nemostate.edu!ACADEMIC.NEMOSTATE.EDU@network.ucsd.edu
Subject: Alinco DJ180T mods?
To: ham-equip@ucsd.edu

I hope this isn't a FAQ that I have just missed, but here goes
anyway...

Although I see many mods listed in various FTP sites for Alinco
160's and 162's, I never see any for the DJ180T. Are the mods the

same for the 180 as for the 160? Where can I find mods for the 180? I have heard that one of the mods will make wideband receive go even wider than the 130-174 range. Help!

```
-----  
| James Scudder      "What's a HAM anyway?" |  
| WB0RPS             |  
| ae85%nemomus.bitnet@academic.nemostate.edu |  
|-----|
```

Date: Fri, 3 Jun 1994 11:33:54 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!psgrain!pacifier!ronh@network.ucsd.edu
Subject: AOR 2800 for sale
To: ham-equip@ucsd.edu

*****For Sale*****

AOR 2800 Scanner

- * 30kHz to 1300MHz continuous
- * 1000 Memory Channels
- * 1000 Search Channels
- * SSB with BFO
- * 1Hz to 1kHz steps
- * Power Supply
- * Clear Acrylic desk stand
- * Manual

This unit works flawlessly, is about 13 months old, and wife says I have too many toys. Paid \$425 new, will sell for \$325 OBO. At asked price, I pay shipping, less than that, you pay. Cashiers check sends it the same day, personal checks must clear first. NO COD. If interested send E-Mail to:

ronh@pacifier.rain.com

Thanks!

Ron Hays

--

pacifier.com - Vancouver's Public access Internet (206) 693-0325
telnet or dial the above and type "new" at the prompt to register

Date: 3 Jun 1994 18:25:21 +0100
From: hookup!swrinde!howland.reston.ans.net!EU.net!sun4nl!rnz1l3!rnz1l3!not-for-mail@ames.arpa
Subject: ATARI MEGAFIL 44 (SyQuest) FOR SALE !
To: ham-equip@ucsd.edu

In <2sk3sv\$ede@news.delphi.com> lordthan@news.delphi.com (LORDTHANATOS@DELPHI.COM) writes:

>jcmonier@muguet.saclay.cea.fr (Jean-Christophe MONIER) writes:
>>A friend of mine sale a ATARI MEGAFIL 44 (SyQuest for ST, MEGA ST, TT) with
>>cartridges and software.
>>He sold this hardware 2000 FF (approximatly 350 US \$)

>If the MegaFile 44 is a standard SCSI-type SyQuest drive, advise your
>friend that they can be had for as little as \$199 here in the States,
>while new carts sell for about \$60 (used for as little as \$25).

It is, but it is in a case with power supply and controller for the Atari ST line.

Rob

Date: Fri, 3 Jun 1994 18:11:10 GMT
From: ihnp4.ucsd.edu!usc!math.ohio-state.edu!howland.reston.ans.net!europa.eng.gtefsd.com!newsxfer.itd.umich.edu!zip.eecs.umich.edu!umn.edu!gold!genz0003@network.ucsd.edu
Subject: getting on hf amtor/rtty: need suggestions!!
To: ham-equip@ucsd.edu

-73's
steve, wi0e

Date: 2 Jun 1994 18:53:00 -0400
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!europa.eng.gtefsd.com!newsxfer.itd.umich.edu!nntp.cs.ubc.ca!torn!uunet.ca!uunet.ca!geac!lethe!uunorth!uunorth!not-for-mail@@.
Subject: Info needed
To: ham-equip@ucsd.edu

I'm interested in setting up a community station outside of Toronto, Canada

and I need some advice on equipment.

I also have info from the CRTC, but any advice would be greatly appreciated.

Thanks in advance....PK

--

=====pk@accesspt.north.net=====

Date: 3 Jun 1994 18:44:45 GMT

From: lll-winken.llnl.gov!overload.lbl.gov!agate!howland.reston.ans.net!

noc.near.net!jericho.mc.com!fugu!levine@ames.arpa

Subject: Kenwood Computer Control

To: ham-equip@ucsd.edu

In article 0005512847NA3EM@mcimail.com, 0005512847@mcimail.COM (Bob Smith) writes:

-->

-->LogView: This is now marketed by AEA. This is the best windows entry
-->of all. Very simple to use and set up. For contesting and DX work
-->under windows I would reccomend it highly. Doesn't need alot of system
-->resources.

-->

This is incorrect. LogView is marketed by MFJ.

AEA markets Log for Windows, much better program.

I've been using it for 2 years.

-->

-->Open for questions.

-->Bob Smith

-->5512847@mcimail.com

-->

Bob Levine KD1GG 7J1AIS VK2GYN formerly KA1JFP
levine@mc.com <--Internet email Phone(508) 256-1300 x247
kd1gg@wa1phy.ma <--Packet Mail FAX(508) 256-3599

Date: 3 Jun 1994 08:15:02 -0400
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!news.ans.net!
newstf01.cr1.aol.com!search01.news.aol.com!not-for-mail@network.ucsd.edu
Subject: Military Radios
To: ham-equip@ucsd.edu

In article <2sl5aj\$oi6@nkosi.well.com>, jleb@well.sf.ca.us (John H.
LeBourgeois) writes:

John try:

Michael Murphy Surplus
1 619 444-7717

Fair Radio Sales
1 419 223-2196

Mil-Com
1 904 282-7277

Date: 3 Jun 1994 17:06:35 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!overload.lbl.gov!lll-winken.llnl.gov!
fnnews.fnal.gov!usenet@network.ucsd.edu
Subject: Old CRT Reference Data?
To: ham-equip@ucsd.edu

In article <keithdCqtwxp.8DL@netcom.com> keithd@netcom.com (Keith Doyle) writes:
>I know there exists some kind of documentation of vacuum tube reference
>data, that should cover CRTs. I have a really old TV I'm trying to
>restore, and the filament on the CRT reads open circuit. I've chased
>down several leads for finding old tubes that were recently posted, and
>I found a couple of companies which will sometimes have such old tubes,
>and one company that will rebuild old CRTs if they can get the electron
>gun for it, but so far nothing has panned out.

>Harry Poster
>New Jersey
>201-794-9606
>

>Reputedly the biggest dealer in the nation (of old tubes, I guess,
>the other dealer that told me that, didn't say what he was the biggest
>dealer of, exactly, just that he was the biggest dealer). I left
>a message on his answering machine which said he'd call me back if he
>can help. So far, I haven't heard from him.

Harry is a collector and seller of old TV sets and well known in the antique radio collectors circles. If he cannot supply or find a picture tube for you probably nobody can. Warning! They ain't cheap!

V
(o o)
(V)

.....m.m.....Dan's Cockatoo Ranch
vvv

Daniel Schoo
Electronics Design Engineer
Fermilab, Batavia, Illinois, USA

Date: Fri, 3 Jun 1994 16:10:37 GMT
From: elroy.jpl.nasa.gov!usc!nic-nac.CSU.net!charnel.ecst.csuchico.edu!psgrain!
library.ucla.edu!csulb.edu!csus.edu!netcom.com!keithd@ames.arpa
Subject: Old CRT Reference Data?
To: ham-equip@ucsd.edu

I know there exists some kind of documentation of vacuum tube reference data, that should cover CRTs. I have a really old TV I'm trying to restore, and the filament on the CRT reads open circuit. I've chased down several leads for finding old tubes that were recently posted, and I found a couple of companies which will sometimes have such old tubes, and one company that will rebuild old CRTs if they can get the electron gun for it, but so far nothing has panned out.

What I've got is a 7JP4, a 7 inch round CRT that uses deflection plates, not deflection coils. I'm thinking that if I can get the reference data, I may be able to find a tube that is available that is similar enough that I can modify the circuitry to suit. This TV uses a serial filament chain off the line voltage (yuk!), but I could always stub the CRT out with a resistor or choke or something, and supply a separate filament transformer if the filaments differ. In addition, if the plate voltages differ, it seems like it might not be too hard to tweak things to a certain extent, this particular TV has loads of adjustments in that area anyway, and I do have a little experience building experimental circuits for deflection plate CRTs (though we're talking about 20 years ago, now). Also, I could find the tube in another old TV and check the Sam's schematics for ideas on it's use.

The old TV is an Airline (Wards) 84-HA-3002, a wooden box the size of an old record player, with a round screen and 13 buttons for channel selection (including Channel 1). It's complete and in pretty decent condition, considering it was made in 1950. If I can find something for

the CRT, it seems definately restorable. I got it from a junk shop that had 8 or so TV's of this vintage for about \$50 ea., none working. They may have been rejects from a more serious collector-restorer who couldn't get the parts, so I may be in trouble. I picked this particular one because it was the only one that had all the front panel knobs, and a note on it said no power, I figured a power supply problem would be pretty easy to fix, and didn't automatically think that the CRT or flyback HV (there isn't one for deflection plates anyway) was bad. Turns out the reason there's no power, is the CRT filament is out in a serial filament string, so there's no filaments at all. Ok, I gambled and I lost. Unless I can devise a solution for the CRT.

It's been so long, I've forgotten what kind of reference material on these old tubes are available. I went to the library, and the catalog listed a Sams tube substitution guide (labeled 1990), but it was missing from the reference section, and I'm not sure it would have the details I want anyway. Somewhere in my piles of stuff I have an old copy of Reference Data for Radio Engineers, but I don't think it went to quite the detail I need either, though my memory of what was in it is pretty foggy.

So does anyone remember what reference materials had this sort of info? Ideally, a source for a 7JP4 is what I really want, but if one doesn't turn up, I'm willing to try to adapt another one.

Oh, and so far, I've tried these folks for a source of a 7JP4:

Antique Electronic Supply, Ltd.
6221 South Maple Avenue
Tempe, AZ 85283
Phone: (602) 820-5411
Fax: (620) 820-4643 or 1-800-706-6789

These guys have old tubes, but no CRTs.

Vintage TV & Radio
3498 W. 105
Cleveland, OH 44111
216-671-6712

They have some CRTs, but no 7JP4.

Superoir Picture Tubes
14 Roosevelt Ave
Carteret, NJ 07008
908-541-9354

They rebuild CRTs if the electron gun is available. Apparently not for the 7JP4, though I may yet get a call from them, if one turns up.

Harry Poster
New Jersey
201-794-9606

Reputedly the biggest dealer in the nation (of old tubes, I guess, the other dealer that told me that, didn't say what he was the biggest dealer of, exactly, just that he was the biggest dealer). I left a message on his answering machine which said he'd call me back if he can help. So far, I haven't heard from him.

Any other ideas are welcome.

Keith Doyle
keithd@netcom.com

Date: 3 Jun 94 23:19:46 GMT
From: dog.ee.lbl.gov!agate!biosci!netnews.synoptics.com!news@ucbvax.berkeley.edu
Subject: Quiet computers
To: ham-equip@ucsd.edu

I must be lucky. I have a 386 system I hacked from nothing but a poorly-fitting, cheap knock-off cabinet, < \$20 keyboard, and no attention paid to any of the cabling or connectorization anywhere. This mess seems to be silent on 160 thru 10. My 757gxII is sitting right next to the PC who even has all of the unused drive bay covers missing cause they didnt fit :(

Not trying to be a smart ass, just an observation. Why is it some have to work hard at RFI reduction and for others it just falls in their lap?

73
Dave
wa6qw1

Date: 3 Jun 94 13:46:56 EDT
From: lll-winken.llnl.gov!overload.lbl.gov!agate!howland.reston.ans.net!gatech!dragon!hayes!bcoleman@ames.arpa
Subject: Quiet computers
To: ham-equip@ucsd.edu

In article <gregCqEw66.45L@netcom.com>, greg@netcom.com (Greg Bullough) writes:
> Here's a different subject...

>
> What specific brands/models of PCs have folks found to be particularly
> good or bad with regard to RF hash generated, and suseptability to
> RF fields?

The best computer systems I have seen for RFI filtering and low subseptability are those made by Apple computer. The Macintosh line is extremely RFI quiet, and the interface pins are filtered with appropriate EMI filtering. All cables are shielded, and the "toaster" varieties (Plus, SE, Classic, Classic II, Color Classic) have the advantage of filtering the monitor.

The only problem I've encountered is with ADB keyboards, who generate a teeny bit of hash on 10m. Better antenna separation would probably eliminate that. (The leakage is THROUGH the keyboard, not the cable or case - kinda hard to eliminate)

For even better RFI supression, I suggest the PowerBook line of notebook computers. I have yet to hear a peep out of my PowerBook 100 on any band.

--

Bill Coleman, AA4LR ! Internet: bcoleman@hayes.com
Principal Software Engineer ! AppleLink: D1958
Hayes Microcomputer Products, Inc. ! CIS: 76067,2327
POB 105203 Atlanta, GA 30348 USA !
Disclaimer: "My employer doesn't pay me to have opinions."
Quote: "The same light shines on vineyards that makes deserts." -Steve Hackett.

Date: 3 Jun 1994 12:36:06 GMT
From: ihnp4.ucsd.edu!swrinde!hopper.acm.org!ACM.ORG!SMITHSON@network.ucsd.edu
Subject: SWR Analyzers
To: ham-equip@ucsd.edu

Does anyone have any experience/opinions about available SWR analyzers, like AEA's HF Analyzer or the MFJ models?

73!

-Brian n8wrl

Date: Fri, 3 Jun 1994 14:45:18 GMT
From: swrinde!howland.reston.ans.net!europa.eng.gtefsd.com!newsxfer.itd.umich.edu!

zip.eecs.umich.edu!yeshua.marcam.com!charnel.ecst.csuchico.edu!psgrain!
library.ucla.edu!csulb.edu!ihnp4.ucsd.edu
Subject: SWR Analyzers
To: ham-equip@ucsd.edu

In article <2sn83m\$2ic@hopper.acm.org> smithson@ACM.ORG writes:
>Does anyone have any experience/opinions about available SWR analyzers,
>like AEA's HF Analyzer or the MFJ models?

I bought the base-model MFJ HF unit back when it was the only choice.

Its strength is that it is cheap and effective. However, you really need your calibrated receiver to set the frequency. If you're going to use it more than a few steps from the receiver, the counter model is well worth while. And considering how annoying it often is, practically speaking, to use SWR to set up VHF antennas, the extended range would be really useful.

In spite of some of their weaknesses (e.g. susceptibility to being thrown off by strong RF fields), for maintaining the backyard antenna farm they are terrific. And as a low-QRM and gentle-to-the-finals way of adjusting the transmatch, they are also great.

I can't comment on the AEA item, but it strikes me as a bit overprice and overkill.

Greg

Date: Fri, 3 Jun 94 22:16:41 GMT
From: lll-winken.llnl.gov!overload.lbl.gov!agate!howland.reston.ans.net!
sol.ctr.columbia.edu!news.kei.com!ub!galileo.cc.rochester.edu!
uhura.cc.rochester.edu!natt@ames.arpa
Subject: wanted 7mhz tcvr
To: ham-equip@ucsd.edu

Date: Fri, 3 Jun 94 10:39:59 CDT
From: ihnp4.ucsd.edu!usc!math.ohio-state.edu!howland.reston.ans.net!
vixen.cso.uiuc.edu!usenet@network.ucsd.edu
Subject: Yay-hoo FT-530 : Piece of junk
To: ham-equip@ucsd.edu

On Wed, 1 Jun 1994 17:21:59 GMT,

Thomas Leber <leber@panther.warm.inmet.com> wrote:

>In article <1994May31.225009.26125@newsgate.sps.mot.com>,
>Dave Kinzer <kinzer@dtsdev0.sps.mot.com> wrote:
>> Where were you guys before he payed too much? Probably too busy
>>bad mouthing the technician class licencees to give them a hand.
>>You can put your nose back into that catalog now.
>
>Hey, take it easy! I don't bad-mouthing tech licensees - I AM one.

Just a data point contribution --- I think the 530's could be found under
\$400 at Dayton. I know someone who purchased one and I think he payed
around \$380 or so.

-Steve-
N9??? (any day now)

Date: 3 Jun 1994 22:38:50 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!agate!darkstar.UCSC.EDU!
news.hal.COM!olivea!sgigate.sgi.com!fido.asd.sgi.com!billd@network.ucsd.edu
To: ham-equip@ucsd.edu

References <p01N+9Z.brunelli_pc@delphi.com>, <2sldrp\$gr1@zippo.uwasa.fi>,
<2sm3a2\$d0a@fido.asd.sgi.com>
Subject : Re: Kenwood TH-78A

Bill Dorsey (billd@engr.sgi.com) wrote:
: As it turns out, Kenwood uses a bank of 3 helical resonators to tune the
: main UHF receiver in the TH-78A. The bandwidth is fixed at 25MHZ, but
: the center point of the band can be adjusted substantially via the
: adjustment screws on the resonators. Greg claims that when fully screwed
: out, the resonators peak at about 478MHZ. When they are peaked this
: high, the main UHF receiver sensitivity is very poor on the ham band,
: but the sub UHF receiver can be used to monitor the ham band. Anyway,
: I intend to play with the resonators this weekend to see if I can
: achieve a compromise I'm happy with. I'll probably just wind up peaking
: the resonators at 450MHZ instead of 435-440MHZ as they are set at the
: factory.

Well, last night I opened up my TH-78A and removed circuit boards until
I got to the RF board. After locating the bank of 3 helical resonators,
I carefully marked the position they were originally in and proceeded to
back them out 1 full turn (the most I could get on one of them was only
1.25 turns anyway). After putting the unit back together, I turned it
on and proceeded to check out its performance.

Now, rather than being almost completely deaf in the upper UHF band (around 480MHz), I had no problems hearing local public service transmissions. Switching back to the UHF ham band, I noticed a reduction in sensitivity, but it's still sensitive enough to work the local repeaters without a problem. Besides, I can use the sub-UHF receiver if I really want good sensitivity on the ham bands.

Since the helical filters in the TH-78A are inductively coupled, the cutoff tends to be much sharper at frequencies above the resonant frequency than below. This explains why I still have reasonable sensitivity in the ham bands as well as good sensitivity in the public service bands I want to monitor.

BTW, I noticed that the antenna Kenwood supplies with the TH-78A is quite decent on the UHF band, but pretty poor on the VHF band. If anyone wants better VHF performance, replacing the antenna is a good place to start.

--

Bill Dorsey
billd@engr.sgi.com
PGP 2.3a public key available

End of Ham-Equip Digest V94 #174
